SBRWO=24/18-19
dt=28-7-18

Original/Duplicate/Triplicate

CONTRACT CERTIFICATE

(For Other Works)

EE/ELE/Y/BR.No.24/18-19
Dt.28-7-18

No. 2nd & Final Bill

Date.....2010

Division: **Electricals (Yelahanka)**

Sub-Division: **Electricals**

Bill Received No. Dated

Schedule Docket No.
D.R.No.

Divisional
Sub Divisional
Head of Account : **P – 3110** (14Finance Commission Grant Works)

Cash Book Voucher No..... Dated.....
Job Code :-010-17-000033

Name of Work:- Modefied Estime for Providing and Fixing of LED Street Lights Ward No-10 in Byatarayanapura Division.

Name of Contractor and Full Address: **M/S Sri Lakshmi Varadaraja electrical Stores,**

Reference to Agreement No:EE/Ele/YZ/WO/ 000006 /17-18

Revised Workorder-EE(SB)/42/RWO/000013/2018-19 Date:24/11/2017

Certified that the measurements were taken by me on 23/7/2018 and recorded of Pages 311756 to 763 of measurement Book No. 5318/17-18 and that the work is satisfactorily executed.

Sri Lakshmi Varadaraja Electrical Stores

Contractor

Dat-16/7/2018

T.N. Reddy JE

Officer-in-charge of work

Certified that the measurement were taken by me on 23/7/18 and found correct. The work is satisfactorily executed.

Certified that the quantities of materials shown in column 3 of Account have been actually brought to site of the work and the contractor has not previously received any advance on this security. These materials are of and imperishable nature and are all required for immediate use on the work in connection with items for finished work have been agreed upon. A normal agreement signed and executed by the contractor is recorded in the office.

Assistant Executive Engineer (Ele)
Sub-Division Officer
BBMP, Bangalore

II Memorandum of Payment

		Amount
1) Total value of work done or supplies made as per account within	Bill	871853=00
2) Deduct amount to be held in reserve being .....percent Rs.....	IT 1%	8719=00
3) " Balance	WC 1%	8719=00
4) Deduct Payment:	CESS 1%	872=00
a) Amount of previous payment as in the Office Cash Book Voucher No.....Dated.....S.D. No..... adjusted towards cash advance recovery of	deductions	18,310=00
b) Payments Now made { cost store or other material supplied. recovery of amount creditable to this/other work Amount paid on this bill Cheque / Cash.	Cheque	853543=00
5) Balance being unpaid value of work done held in reserve.		
6) Deduct cash advance made on the Office cash Book Voucher No..... dated.....less adjustments.		
7) Net amount due to or from Contractor unadjustments items.		
8) Advance to Contractor for materials brought to site (as detailed) within.		
9) Value of Government materials supplied.		
Total amount adjusted -		

Sri Lakshmi Varadaraja Electrical Stores
Proprietor
Contractor's Signature

Received Rs..... (in words).....
.....
by cash and by adjustment of Payment as per memorandum (in final settlement of all demands)

ಲೆಕ್ಕಶೀರ್ಷಿಕೆ P3110 (14th Finance grants.

Witness
1.
2.

Sri Lakshmi Varadaraja Electrical Stores
Proprietor

ರೂ:871853=00 ಡೆಬಿಟ್ ಮಾಡಿ ಸ್ವೀಕರಿಸಿದೆ

ರೂ:853543=00 ಚೆಕ್ ನೀಡಲಾಗಿದೆ

ರೂ:18310=00 ಹೊಂದಾಣಿಕೆ ಮಾಡಿದೆ

Dated Signature of Contractor

Paid by me by Cheque No. Dated

Cash Rs.

Dated Initials of Officer making payment

Stamp

(For use in the Office)

ಲೆಕ್ಕ ಪರಿಶೋಧಕರು ಕಾ.ಪಾ.ಅ.(ವಿ) ಯಲಹಂಕ ವಲಯ

Executive Engineer

Sl. No.	Description of Item	Unit
	Name Of Work:-Providing and Fixing of LED Street Lights in Ward No-10 in Byatarayanapura Division.	
1	LED Street light.Supply of LED Streetlight with pressure die cast aluminum housing body with optimal heat sink for better thermal dissipation. Diffuser with Injection moulded & is made of polycarbonate material with high transmission index, delivering superior light output. Rated life Burning Hrs 50000 hr @ Lumen Maintenance of 70%. CCT > 5500K, IP 66 optical and electrical compartment & impact resistance of complete luminare > IK08. Power Factor >0.9 with mains Current should not be greater than 0.1A to 0.7A & Surge Protection- Min 4KV along with Over voltage/Overload, short circuit/ miswiring protection. Compatible for pole mounting with outer dia of 40mm to 50mm. Universal Voltage driver to operate wide voltage range from 100V to 270V 50/60Hz application. Over load & Short circuit protection ensures reliable operation in spite of problem in output side. Compliance to IS 10322/IEC 60598, LM 79 & LM 80 Adherence with RoHS. UL approved MCPCB. Top access street light with single screw to ensure ease of maintenance at the sight site location with minimized minimal tools. LED Light fixture with .....W System Power consumption. LED Efficiency>130lm/w at 1W & Fixture Efficiency >80lm/w with nominal CRI >75. Luminaire manufacturer should have in-house facility accredited by NABL/CPRI & any Government certified agency & Design & Development facility certified by ISO 9001:2008 . Housing with supplier word mark /name shall be Engraved / Embossing on the die cast housing/ Body part. Warranty of 5 Years against any manufacturing defect working under standard electrical conditions as mentioned above should be given by LED source manufacture. Suitable for B1/B2 Roads as per IS 1944 Part I & Part II.LED Streetlight 65watts	each
2	Supplying & fixing of 32 mm dia class A GI pipe bracket up to 2 mtrs long bent at suitable angle and fixing to this bracket 1x40/2x40 or rail or RCC pole/wall using suitable clamps, bolts, and nuts and wiring using suitable capacity wires complete. Using 32mm dia G.I pipe	Each
3	Wiring for lighting / power circuit using one of pvc insulated 1100v grade stranded aluminum unsheathed wire single core cable in open or concealed system of wiring as per IS - 694 : 19904sq mm	Per Mtr
4	Supplying of 1.1KV grade Aerial Bunched Cable Stranded & Compacted Aluminum Phase Conductor, and Stranded Messenger Conductor with all aluminum Alloy, Phase Conductor is insulated with XLPE Compound, insulated Messenger with specified IS-14255:1995 & confirming to GTP of GROUP-A.2 X 25 + 1 X 25 SQ.MM	Per Mtr
5	Stringing of 1.1kv LT Arial Bunched Cable, BESCOM SR	Per Mtr
6	Open Conduit Systeme: Supplying heavy gauge PVC conditpipe,,,,,,,,,, dia confirming to IS 2509 with suitable size bends,junction boxes, adhesibve paste etc., and fixing using inverted wood plugs in case of RCC ceiling and RCC wall stone structure or plug incase of brick walls and cement plastering damaged portionusing heavy gauge saddles at an interval of 700mm using NF screws.c)32mm dia 2.5mm thick	Per Mtr
7	Supplying and fixing angle iron frame work fabricated out of M.S angle iron... and M.S. flat... with bolts, washers etc., and painted with 2 coats of red oxide and then two coats of approved paint. a)50X50X6 mm	mtr
8	Supplying and running GI/Copper conductor for grounding and (along with other wires in conduit system of wiring) using necessary suitable size clamps, nails, guttas/spacers etc. GI Wire 8 SWG	mtrs
9	Supply and Installation / Fixing / Provision of Pole box with HRC Fuse / MCB provision and suitable connector / terminal for 3 Ph / 1 Ph connections with Loop-In & Loop-Out terminals for 10 Sqmm / 25 Sqmm 3.5 C Al/Ar / Cu/Ar Cable and branch out 2.5 Sqmm 2 core Al/Cu PVC Insulated cable, enclosed in a Thermoplastic, Polystyrene enclosure, which should be shock proof, safe, IP65(Weather Proof), rust proof, dust proof, water proof having Internally Embedded Gasket with provision for cable entry through IP65 Thermoplastic, polyamide glands and/or grommets.200mmx200mmx98mm	Each
10	Supplying and fixing Moulded Case Circuit Breaker (MCCB) over the existing wood/panel board using necessary screws, bolts, nuts and wiring complete. Protection of Overload and Short circuit with thermal Magnetic/Micro processor release and Earth Fault as per IS-13947: (Icu = Ics) THREE POLE 100Amps 25kA.	Each
11	2 Pin Cross Arm with pole clamp, bolt & nuts & washers for RCC Pole - MS	Nos
12	Piercing Connector Suitable for 16 Sqmm - 95 Sqmm AB Cable - Street Light Connections	Nos
13	Suspension Clamp Assembly16 to 70 Sqmm Bare Messenger(Exclusive of pole clamp and eye hook)	Nos
14	Dead End Clamp/Anchor Clamp Assembly 25 to 95 Sqmm Bare Messenger(Exclusive of pole clamp and eye hook)	Nos
15	Fixing of 2 Pin cross arm with insulator and Braces fixing	Nos
16	Erection of Suspension Clamp : 25 to 95 sqmm bare messenger	Nos
17	Installation of Insulation piercing connector for main to street light Main : 16-95sqmm, Tap : 1.5-10sqmm(EP95)	Nos
18	Fixing of Universal Hook/Dead end clamp	Nos
	Total Rs	

Certificate : Certified that the Above Work has been carreid out satisfactorily

Assistant Executive Engineer (Ele)
BBMP, Bangalore

Previous Measurement		Present Measurement			Total Upto Date		Remarks
Qty	Cost	Qty	Rate	Amount	Qty	Cost	
62	465000.00	78	7500.00	585000.00	140	1050000.00	
35	20545.00	75	587.00	44025.00	110	64570.00	
185	1295.00	211	7.00	1477.00	396	2772.00	
195	29250.00	1397	150.00	209550.00	1592	238800.00	
195	1950.00	1397	10.00	13970.00	1592	15920.00	
150	7500.00	0	50.00	0.00	150	7500.00	
23	1140.34	0	49.58	0.00	23	1140.34	
0	0.00	0	10.00	0.00	0	0.00	
25	50010.00	0	2000.40	0.00	25	50010.00	
25	50000.00	0	2000.00	0.00	25	50000.00	
0		37	75.73	2802.01	37	2802.01	
0		74	74.80	5535.20	74	5535.20	
0		37	88.82	3286.34	37	3286.34	
0		6	61.24	367.44	6	367.44	
0		37	44.88	1660.56	37	1660.56	
0		37	53.76	1989.12	37	1989.12	
0		74	25.24	1867.76	74	1867.76	
0		6	53.76	322.56	6	322.56	
	626690.34			871852.99		1498543.33	

1057.5H

45.98

1057.5H

626607.5H

1H.98.460.53,